

HAER
WASH,
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HISTORIC AMERICAN ENGINEERING RECORD

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SKAGIT POWER DEVELOPMENT: GORGE POWERHOUSE
0.4 MILES UPSTREAM FROM NEWHALEM
ON THE SKAGIT RIVER
NEWHALEM
WHATCOM COUNTY
WASHINGTON

HAER NO. WA-24-B

NOTE 1: These photographs are U.S. Government materials and not subject to copyright. However, the courtesy of a credit line identifying the Historic American Engineering Record and the photographer would be appreciated. These photographs were taken by Jet Lowe during July 1987, July 1989, and June 1990.

NOTE 2: These photographs were taken as part of the Skagit River and Newhalem Greek Hydroelectric Project, which is part of the Federal Energy & Regulatory Commission's (FERC) re-licensing of the Skagit River Project (FERC No. 553).

- WA-24-B-1 WEST FACADE GORGE POWERHOUSE WITH PEDESTRIAN SUSPENSION BRIDGE TO THE RIGHT AND PRATT TRUSS VEHICLE BRIDGE TO THE LEFT. THE LEFT SECTION OF THE POWERHOUSE WAS ADDED TO THE ORIGINAL 1925 STRUCTURE IN 1949, 1987.
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- WA-24-B-8 INTERIOR GORGE POWERHOUSE LOOKING SOUTH AT UNITS 23, 22, AND 21 FROM THE TOP OF UNIT 24. THE SHAW BRIDGE GRANE IS AT THE TOP REAR OF THE POWERHOUSE. THE UPPER SET OF WINDOWS TO THE LEFT ARE FOR THE VISITORS' GALLERY; THE LOWER SET ARE THE POWERHOUSE CONTROL ROOM, 1989.
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BUT AT THE SOUTH END OF THE BUILDING SHOWING UNITS 21, 22, 23, AND 24. THE WOODWARD GOVERNOR SYSTEM FOR UNIT 21 IS VISIBLE TO ITS LEFT, 1989.

- WA-24-B-10 NAMEPLATES FOR UNIT 21, GORGE POWERHOUSE, 1989.
- WA-24-B-11 INTERIOR GORGE POWERHOUSE FROM CRANE LEVEL LOOKING DOWN INTO THE STATOR OF UNIT 24 WHICH IS IN THE PROCESS OF BEING REWOUND. THE ROTOR FOR UNIT 24 IS VISIBLE TO THE TOP RIGHT, 1989.
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- WA-24-B-13 7000 VOLT SWITCH GEAR CABINETS GORGE POWERHOUSE, 1989.
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- WA-24-B-15 STATION SERVICE TRANSFORMER CABINETS AND WESTINGHOUSE SWITCHING PANEL GORGE POWERHOUSE, 1989.
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- WA-24-B-17 TURBINE PIT UNIT 24 GORGE POWERHOUSE. UNIT 24 WAS UNDERGOING MAINTENANCE AT THE TIME THE PHOTO WAS TAKEN, 1989.
- WA-24-B-18 SHEAR PIN, UNIT 24 GORGE POWERHOUSE. THE WICKET GATES ON THE TURBINE ARE EACH EQUIPPED WITH A SHEAR PIN AND OIL PRESSURE GAUGE. IF A GATE JAMS, THE PIN SHEARS AND THE CHANGE IN OIL PRESSURE TRIGGERS AN ALARM, 1989.
- WA-24-B-19 JACKING AND BRAKING STATION UNIT 24 GORGE POWERHOUSE, 1989.
- WA-24-B-20 MANUAL JACKING STATION UNIT 23 GORGE POWERHOUSE. JACKING FOR UNITS 23, 22, AND 21 HAS BEEN AUTOMATED FOR MANY YEARS BUT THE MANUAL JACKING STATIONS REMAIN IN PLACE AND FUNCTIONAL, 1989.
- WA-24-B-21 REPLACEMENT FRANCIS RUNNER FOR TURBINE FOR UNIT 23 GORGE POWERHOUSE, 1989.
- WA-24-B-22 TURBINE PIT AREA GORGE POWERHOUSE SHOWING RELIEF VALVE FOR UNIT 23 IN FOREGROUND AND GOVERNOR OIL TANKS AND PUMPS IN THE LEFT REAR, 1989.

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- WA-24-B-26 BIPLANE VALVE CONTROL PANEL GORGE POWERHOUSE, 1989.
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